Approved For Release 2008/01/08: CIA-RDP78B04558A000800110006-6 SECRE HFS OUT52342 CJS P 210023Z CFC C 21 01 FM NPIC TO DIRNSA PNS 25X1 CNO 2 1 NOV 1963 25X1 AFSSO USAF Grace (File) YWQLAZC/AFSSO SAC S E C R E T RELEASABLE FROM SSO CHANNELS. SSOS PASS TO APPROPRIATE TCOS. CITE NPIC 1504. THE FOLLOWING IS FROM THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER. REF NPIC 1454 (P-120201Z) MENSURAL ANALYSIS OF NEWLY ACQUIRED PHOTOGRAPHY, OF BETTER Grace (File)] QUALITY, PROVIDES FURTHER REFINEMENT OF THE SURFACE-TO-AIR MISSILES PHOTOGRAPHED IN MOSCOW ON 7 NOVEMBER 1963. REVISED DATA FOLLOWS: SN4 BOOSTER: CEC LENGTH 13.2 FEET CTZ DIAMETER 3.2 FEET SJH DIAMETER INCLUDING STABLIZER FINS: 15.6 FEET SURFACE AREA OF EACH STABLIZER FIN: 28.8 SQUARE FEET SUSTAINER AND WARHEAD: LENGTH FROM TIP OF PRESSURE PROBE TO END OF SUSTAINER NOZZLE

SECRET

LENGTH OF SUSTAINER INCLUDING NOZZLE SKIRT: 29.4 FEET

SKIRT: 39.0 FEET

GROOP I
Excluded from automatical
downgrading and
declassification

LENGTH OF NOZZLE SKIRT: Ø.7 FEET

DIAMETER OF SUSTAINER: 2.6 FEET

DIAMETER AT JUNCTION OF SUSTAINER AND NOZZLE SKIRT: 1.9 FEET

DIAMETER INCLUDING LENGTH OF CONTROL FINS: 6.8 FEET

SURFACE AREA OF EACH CONTROL FIN: 2.8 SQUARE FEET

DIAMETER INCLUDING LENGTH OF STABLIZER FINS: 11.0 FEET

SURFACE AREA OF EACH STABLIZER FIN: 23.1 SQUARE FEET

LENGTH OF WARHEAD. 6.0 FEET

CURVATURE OF OGIVE -- CANNOT BE DETERMINED ACCURATELY FROM AVAIL-

ABLE PHOTOGRAPHY

LENGTH OF PRESSURE PROBE: 3.6 FEET

MAXIMUN DIAMETER OF PRESSURE PROBE: 6 INCHES

MINIMUM DIAMETER OF PRESSURE PROBE: 2 INCHES

TRACTOR AND TRAILER:

OVERALL LENGTH OF TRACTOR AND TRAILER: 66.0 FEET

LENGTH OF TRAILER: 50.0 FEET

MAXIMUM WIDTH OF TRAILER: 12.6 FEET

FORTHCOMING NPIC REPORT WILL PROVIDE ADDITIONAL DETAILS.

THE MENSURAL DATA ARE DERIVED FROM GRAPHICAL AND RATIO SOLUTIONS

TAKEN FROM PHOTOGRAPHIC PRINTS. THE BASIC KNOWN DIMENSIONS ARE

THE 178-INCH WHEEL-BASE AND 8-FOOT 10-INCH HEIGHT OF THE VEHICLE

TOWING THE MISSILE. MOST OF THE DIMENSIONS (MEASUREMENTS) ARE CONSIDERED ACCURATE TO WITHIN 3.6 INCHES, BUT SOME OF THE LONGER HORIZONTAL MEASUREMENTS -- SUCH AS THE OVERALL LENGTH OF THE MISSILE, AND THE BOOSTER AND SUSTAINER STAGES -- CONTAIN CUMULATIVE ERRORS AND MAY ONLY BE CONSIDERED ACCURATE TO WITHIN 7.2 INCHES. THE ABOVE DIMENSIONS ARE GENERALIZED AND SHOULD NOT BE USED IN ANY DETAILED ENGINEERING ANALYSIS OF THE MISSILE OR THE TRACTOR TRAILER. SCP-1.

SECRET

-END OF MESSAGE-